

**Appendix**  
**Pending claims with entry of Preliminary Amendment**

10. Methylthioadenosine phosphorylase (MTase) encoded by the nucleic acid whose nucleotide sequence is set forth in SEQ. ID NO.1, wherein the nucleic acid is expressed by a recombinant expression vector.

11. A recombinant expression vector containing peptide encoding fragments of the polynucleotide of Claim 7.

12. MTase peptides expressed by the recombinant expression vector of Claim 11.

13. Antibodies produced through immunization of an animal with the MTase peptides of Claim 12.

14. Antibodies according to Claim 13 wherein the antibodies are monoclonal antibodies produced by hybridomas formed from cells of the immunized animals.

15. Synthetic MTase or MTase peptide fragments.

16. Antibodies produced through immunization of an animal with the MTase or MTase peptide fragments of Claim 15.